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**Yao et al.**

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(54) **FOLDED CAMERA**

(56) **References Cited**

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(57) **ABSTRACT**

A folded camera that includes two light folding elements  
such as prisms and an independent lens system, located  
between the two prisms, which includes an aperture stop and  
a lens stack. The lens system may be moved on one or more  
axes independently of the prisms to provide autofocus  
and/or optical image stabilization for the camera. The  
shapes, materials, and arrangements of the refractive lens  
elements in the lens stack may be selected to capture high  
resolution, high quality images while providing a suffi-  
ciently long back focal length to accommodate the second  
prism.

**20 Claims, 15 Drawing Sheets**

